

**What is claimed is:**

1 1. An ignition coil comprising:

2 a casing; and

3 a bobbin, including a body and a plurality of first  
4 terminals embedded in the body, disposed inside  
5 the casing, wherein each first terminal is  
6 abutted by the body and the casing respectively  
7 so that each first terminal is maintained in a  
8 predetermined position on the body.

1 2. The ignition coil as claimed in claim 1,  
2 wherein the bobbin is formed with a plurality of concave  
3 portions for receiving the first terminals therein.

1 3. The ignition coil as claimed in claim 2,  
2 wherein the bobbin is formed with a plurality of  
3 protrusions for holding the first terminals therein, and  
4 each concave portion is formed at one of the protrusions  
5 respectively.

1 4. The ignition coil as claimed in claim 1,  
2 further comprising:

3 a plurality of pins, corresponding to the first  
4 terminals respectively, embedded inside the  
5 casing.

1 5. The ignition coil as claimed in claim 4,  
2 wherein each of the first terminals includes a ring-  
3 shaped portion in contact with the corresponding pin.

1           6. The ignition coil as claimed in claim 5,  
2 wherein each ring-shaped portion is abutted by the body  
3 and the casing respectively.

1           7. The ignition coil as claimed in claim 5,  
2 wherein each of the pins is surrounded by the  
3 corresponding ring-shaped portion to contact the  
4 corresponding first terminal.

1           8. The ignition coil as claimed in claim 5,  
2 wherein each of the first terminals further includes a  
3 protruding portion integrally formed with the ring-shaped  
4 portion.

1           9. The ignition coil as claimed in claim 5,  
2 wherein the casing is provided with a base in which the  
3 pins are disposed, and each ring-shaped portion is  
4 abutted by the base.

1           10. The ignition coil as claimed in claim 9,  
2 wherein the base is formed with a plurality of supporting  
3 portions to be abutted by the ring-shaped portions.

1           11. The ignition coil as claimed in claim 1,  
2 wherein the bobbin further includes a primary portion and  
3 a secondary portion.

1           12. The ignition coil as claimed in claim 11,  
2 further comprising:  
3           a primary coil surrounding the primary portion; and  
4           a secondary coil, surrounding the secondary portion,  
5           connected to the first terminals.

1 13. The ignition coil as claimed in claim 12,  
2 wherein the bobbin further comprises:

3 two second terminals, connected to the primary coil,  
4 embedded in the body.

1 14. The ignition coil as claimed in claim 1,  
2 further comprising:

3 a core disposed inside the bobbin.

1 15. The ignition coil as claimed in claim 1,  
2 wherein the casing is made of plastic.

1 16. The ignition coil as claimed in claim 1,  
2 wherein each of the pins is made of metal.

1 17. An ignition coil comprising:

2 a casing;

3 a bobbin including a body, a plurality of first  
4 terminals embedded in the body, and two second  
5 terminals embedded in the body, wherein the  
6 bobbin is disposed inside the casing, and each  
7 of the first terminals is abutted by the body  
8 and the casing respectively so that each of the  
9 first terminals is maintained in a  
10 predetermined position on the body;

11 a primary coil, surrounding the body of the bobbin,  
12 connected to the second terminals;

13 a secondary coil, surrounding the body of the  
14 bobbin, connected to the first terminals; and

15 a core disposed inside the bobbin.

1 18. The ignition coil as claimed in claim 17,  
2 wherein the bobbin is formed with a plurality of concave  
3 portions for receiving the first terminals therein.

1 19. The ignition coil as claimed in claim 18,  
2 wherein the bobbin is formed with a plurality of  
3 protrusions for holding the first terminals therein, and  
4 each of the concave portions is formed at one of the  
5 protrusions respectively.

1 20. The ignition coil as claimed in claim 17,  
2 further comprising:

3 a plurality of pins, corresponding to the first  
4 terminals respectively, embedded inside the  
5 casing.

1 21. The ignition coil as claimed in claim 20,  
2 wherein each of the first terminals includes a ring-  
3 shaped portion contacting each corresponding pin.

1 22. The ignition coil as claimed in claim 21,  
2 wherein each ring-shaped portion is abutted by the body  
3 and the casing respectively.

1 23. The ignition coil as claimed in claim 21,  
2 wherein each pin is surrounded by the corresponding ring-  
3 shaped portion to contact each corresponding first  
4 terminal.

1 24. The ignition coil as claimed in claim 21,  
2 wherein each first terminal further includes a protruding  
3 portion integrally formed with the ring-shaped portion.

1           25. The ignition coil as claimed in claim 21,  
2 wherein the casing is provided with a base in which the  
3 pins are disposed, and each ring-shaped portion is  
4 abutted by the base.

1           26. The ignition coil as claimed in claim 25,  
2 wherein the base is formed with a plurality of supporting  
3 portions to be abutted by the ring-shaped portions.

1           27. The ignition coil as claimed in claim 17,  
2 wherein the bobbin further comprises:  
3           a primary portion surrounded by the primary coil;  
4           and  
5           a secondary portion surrounded by the secondary  
6           coil.

1           28. The ignition coil as claimed in claim 17,  
2 wherein the casing is made of plastic.

1           29. The ignition coil as claimed in claim 17,  
2 wherein each of the pins is made of metal.

1           30. The ignition coil as claimed in claim 17,  
2 wherein the bobbin further comprises:  
3           two second terminals, connected to the primary coil,  
4           embedded in the body.